



39780-1216R1C1D5 SAVED JULY 7 2005.TXT

SEQUENCE LISTING

<110> Ashkenazi, Avi J.  
Fong, Sherman  
Goddard, Audrey  
Gurney, Austin L.  
Napier, Mary A.  
Tumas, Daniel  
Wood, William I.

<120> COMPOUNDS, COMPOSITIONS AND METHODS FOR  
THE TREATMENT OF DISEASES CHARACTERIZED BY A-33 RELATED  
ANTIGENS

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<141> 2004-02-24

<150> US 09/953,499

<151> 2001-09-14

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<151> 1999-03-05

<150> PCT/US98/24855

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<151> 1998-09-17

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Ala Lys Lys Thr Arg Ala Phe Met Asn Ser Ser Phe Thr Ile Asp Pro
180    185    190
Lys Ser Gly Asp Leu Ile Phe Asp Pro Val Thr Ala Phe Asp Ser Gly
195    200    205
Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
210    215    220
Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
225    230    235    240
Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
245    250    255
Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
260    265    270
Thr Ala Pro Gly Lys Lys Val Ile Tyr Ser Gln Pro Ser Thr Arg Ser
275    280    285
Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
290    295    300

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<210> 11  
 <211> 1842  
 <212> DNA  
 <213> Homo sapiens

<400> 11

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gtctgttccc aggagtcctt cggcggtgtg tgtgtcagtg gcctgatcgc gatggggaca 60
aaggcgcaag tcgagaggaa actgttgtgc ctcttcatat tggcgatcct gtttgtgctcc 120
ctggcattgg gcagtgttac agtgcactct tctgaacctg aagtcagaat tcctgagaat 180
aatcctgtga agttgtcctg tgcctactcg ggcttttctt ctcccgtgt ggagtggaag 240
tttgaccaag gagacaccac cagactcggt tgctataata acaagatcac agcttcctat 300
gaggaccggg tgaccttctt gccaaactggt atcaccttca agtccgtgac acgggaagac 360
actgggacat acacttgatg ggtctctgag gaaggcggca acagctatgg ggaggtcaag 420
gtcaagctca tcgtgcttgt gcctccatcc aagcctacag ttaacatccc ctctctgcc 480
accattggga accgggcagt gctgacatgc tcagaacaag atggttcccc accttctgaa 540
tacacctggg tcaaagatgg gatagtgatg cctacgaatc ccaaaagcac ccgtgccttc 600
agcaactctt cctatgtcct gaatcccaca acaggagagc tgggtcttga tcccctgtca 660
gcctctgata ctggagaata cagctgtgag gcacggaatg ggtatgggac acccatgact 720

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tcaaatgctg	tgcgcatgga	agctgtggag	cggaatgtgg	gggtcatcgt	ggcagccgtc	780
cttghtaacc	tgattctcct	gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	840
ggccactttg	acagaacaaa	gaaagggact	tcgagtaaga	aggtgattta	cagccagcct	900
agtgtcccga	gtgaaggaga	attcaaacag	acctcgtcac	tcctgggtgtg	agcctgggtcg	960
gctcaccgcc	tatcatctgc	atgtgcctta	ctcaggtgct	accggactct	ggccccctgat	1020
gtctgtagtt	tcacaggatg	ccttattttg	cttctacacc	ccacagggcc	ccctacttct	1080
tcggatgtgt	ttttaataat	gtcagctatg	tgccccatcc	tccttcatgc	cctccctccc	1140
tttcttacca	ctgctgagtg	gcctgggaact	tgtttaaagt	gtttattccc	catttctttg	1200
agggatcagg	aaggaatcct	gggtatgcca	ttgacttccc	ttctaagtag	acagcaaaaa	1260
tggcgggggg	cgcaggaatc	tgcactcaac	tgcccacctg	gctggaaggg	atctttgaat	1320
aggtatcttg	agcttggttc	tgggctcttt	ccttgtgtac	tgacgaccag	ggccagctgt	1380
tctagagcgg	gaattagagg	ctagagcggc	tgaatgggtt	gtttgggtgat	gacactgggg	1440
tccttccatc	tctggggccc	actctcttct	gtcttcccat	gggaagtgcc	actgggatcc	1500
ctctgccctg	tcctcctgaa	tacaagctga	ctgacattga	ctgtgtctgt	ggaaaatggg	1560
agctcttgtt	gtggagagca	tagtaaat	tcagagaact	tgaagccaaa	aggatttaaa	1620
accgctgctc	taaagaaaag	aaaactggag	gctgggcgca	gtggctcacg	cctgtaatcc	1680
cagaggctga	ggcagggcga	tcacctgagg	tcgggagttc	gggatcagcc	tgaccaacat	1740
ggagaaacc	tactggaat	acaaagttag	ccaggcatgg	tggtgcatgc	ctgtagtccc	1800
agctgctcag	gagcctggca	acaagagcaa	aactccagct	ca		1842

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial sequence

<400> 12

tcgcgagct	gtgttctgtt	tccc	24
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<210> 13

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial sequence

<400> 13

tgatcgcat	ggggacaaag	gcgcaagctc	gagaggaaac	tggtgtgcct	50
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<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial sequence

<400> 14

acacctggtt	caaagatggg	20
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<210> 15

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Artificial sequence

<400> 15

taggaagagt	tgctgaaggc	acgg	24
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<210> 16  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 16  
 ttgccttact caggtgctac 20

<210> 17  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 17  
 actcagcagt ggtaggaaag 20

<210> 18  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 18  
 tatccctcca attgagcacc ctgg 24

<210> 19  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 19  
 gtcggaagac atcccaacaa g 21

<210> 20  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 20  
 cttcacaatg tcgctgtgct gctc 24

<210> 21  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Artificial sequence

<400> 21  
agccaaatcc agcagctggc ttac

24

<210> 22  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Artificial sequence

<400> 22  
tggatgaccg gagccactac acgtgtgaag tcacctggca gactcctgat

50

<210> 23  
<211> 260  
<212> PRT  
<213> Homo sapiens

<400> 23  
Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro Glu Val Arg  
1 5 10 15  
Ile Pro Glu Asn Pro Val Lys Leu Ser Cys Ala Tyr Ser Gly Phe  
20 25 30  
Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp Thr Thr Arg  
35 40 45  
Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu Asp Arg Val  
50 55 60  
Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr Arg Glu Asp  
65 70 75 80  
Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly Asn Ser Tyr  
85 90 95  
Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro Ser Lys Pro  
100 105 110  
Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg Ala Val Leu  
115 120 125  
Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr Thr Trp Phe  
130 135 140  
Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr Arg Ala Phe  
145 150 155 160  
Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu Leu Val Phe  
165 170 175  
Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg  
180 185 190  
Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg Met Glu Ala  
195 200 205  
Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu Val Thr Leu  
210 215 220  
Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala Tyr Ser Arg  
225 230 235 240  
Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys Lys Val Ile  
245 250 255  
Tyr Ser Gln Pro  
260

<210> 24  
<211> 270  
<212> PRT  
<213> Homo sapiens

<400> 24

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Val Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro Gln Asp Val
1      5      10      15
Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr His
20     25     30
Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys Leu Leu
35     40     45
Leu Thr His Thr Glu Arg Val Ile Trp Pro Phe Ser Asn Lys Asn
50     55     60
Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile Ser Asn Asn
65     70     75     80
Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu Thr Met Ala
85     90     95
Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser Asp Leu Glu
100    105    110
Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val Pro Pro Ser
115    120    125
Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly Asn Asn Ile
130    135    140
Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro Gln Tyr Ser
145    150    155    160
Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu Ala Gln Pro
165    170    175
Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr Asp Thr Ser
180    185    190
Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr Gln Phe Cys
195    200    205
Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val Ala Leu Tyr
210    215    220
Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile Ile Gly Ile
225    230    235    240
Ile Ile Tyr Cys Cys Cys Arg Gly Lys Asp Asp Asn Thr Glu Asp
245    250    255
Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu Pro
260    265    270

```

<210> 25  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

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<400> 25
Leu Cys Ser Leu Ala Leu Gly Ser Val Thr Val His Ser Ser Glu Pro
1      5      10      15
Glu Val Arg Ile Pro Glu Asn Asn Pro Val Lys Leu Ser Cys Ala Tyr
20     25     30
Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Asp Gln Gly Asp
35     40     45
Thr Thr Arg Leu Val Cys Tyr Asn Asn Lys Ile Thr Ala Ser Tyr Glu
50     55     60
Asp Arg Val Thr Phe Leu Pro Thr Gly Ile Thr Phe Lys Ser Val Thr
65     70     75     80
Arg Glu Asp Thr Gly Thr Tyr Thr Cys Met Val Ser Glu Glu Gly Gly
85     90     95
Asn Ser Tyr Gly Glu Val Lys Val Lys Leu Ile Val Leu Val Pro Pro
100    105    110
Ser Lys Pro Thr Val Asn Ile Pro Ser Ser Ala Thr Ile Gly Asn Arg
115    120    125
Ala Val Leu Thr Cys Ser Glu Gln Asp Gly Ser Pro Pro Ser Glu Tyr
130    135    140
Thr Trp Phe Lys Asp Gly Ile Val Met Pro Thr Asn Pro Lys Ser Thr
145    150    155    160
Arg Ala Phe Ser Asn Ser Ser Tyr Val Leu Asn Pro Thr Thr Gly Glu

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      165      170      175
Leu Val Phe Asp Pro Leu Ser Ala Ser Asp Thr Gly Glu Tyr Ser Cys
      180      185      190
Glu Ala Arg Asn Gly Tyr Gly Thr Pro Met Thr Ser Asn Ala Val Arg
      195      200      205
Met Glu Ala Val Glu Arg Asn Val Gly Val Ile Val Ala Ala Val Leu
      210      215      220
Val Thr Leu Ile Leu Leu Gly Ile Leu Val Phe Gly Ile Trp Phe Ala
      225      230      235      240
Tyr Ser Arg Gly His Phe Asp Arg Thr Lys Lys Gly Thr Ser Ser Lys
      245      250      255
Lys Val Ile Tyr Ser Gln Pro
      260

```

<210> 26  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

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<400> 26
Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser Val Glu Thr Pro
  1      5      10      15
Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys
      20      25      30
Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp
      35      40      45
Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
      50      55      60
Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser Ile
      65      70      75      80
Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ile Thr Ile Asp Gln Leu
      85      90      95
Thr Met Ala Asp Asn Gly Thr Tyr Glu Cys Ser Val Ser Leu Met Ser
      100      105      110
Asp Leu Glu Gly Asn Thr Lys Ser Arg Val Arg Leu Leu Val Leu Val
      115      120      125
Pro Pro Ser Lys Pro Glu Cys Gly Ile Glu Gly Glu Thr Ile Ile Gly
      130      135      140
Asn Asn Ile Gln Leu Thr Cys Gln Ser Lys Glu Gly Ser Pro Thr Pro
      145      150      155      160
Gln Tyr Ser Trp Lys Arg Tyr Asn Ile Leu Asn Gln Glu Gln Pro Leu
      165      170      175
Ala Gln Pro Ala Ser Gly Gln Pro Val Ser Leu Lys Asn Ile Ser Thr
      180      185      190
Asp Thr Ser Gly Tyr Tyr Ile Cys Thr Ser Ser Asn Glu Glu Gly Thr
      195      200      205
Gln Phe Cys Asn Ile Thr Val Ala Val Arg Ser Pro Ser Met Asn Val
      210      215      220
Ala Leu Tyr Val Gly Ile Ala Val Gly Val Val Ala Ala Leu Ile Ile
      225      230      235      240
Ile Gly Ile Ile Ile Tyr Cys Cys Cys Cys Arg Gly Lys Asp Asp Asn
      245      250      255
Thr Glu Asp Lys Glu Asp Ala Arg Pro Asn Arg Glu Ala Tyr Glu Glu
      260      265      270
Pro

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<210> 27  
 <211> 413  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Artificial sequence

&lt;400&gt; 27

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ctcgagccgc tcgagccgtg cggggaaata tcgttgtaga gttagtgcc catctgagca 60
aggccaaaac ctggaagagg atacagtcac tctggaagta ttagtggtc cagcagttcc 120
atcatgtgaa gtaccctctt ctgctctgag tggaactgtg gtagagctac gatgtcaaga 180
caaagaaggg aatccagctc ctgaatacac atggtttaag gatggcatcc gtttgctaga 240
aaatcccaga cttggctccc aaagcaccaa cagctcatac acaatgaata caaaaactgg 300
aactctgcaa ttttaactg tttccaaact ggacactgga gaatattcct gtgaagcccg 360
caattctgtt ggatatcgca ggtgtcctg ggaacgaat gcaagtagat gat 413

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&lt;210&gt; 28

&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Artificial sequence

&lt;400&gt; 28

```

atcgttgtga agttagtgcc cc 22

```

&lt;210&gt; 29

&lt;211&gt; 23

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Artificial sequence

&lt;400&gt; 29

```

acctgcgata tccaacagaa ttg 23

```

&lt;210&gt; 30

&lt;211&gt; 48

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Artificial sequence

&lt;400&gt; 30

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ggaagaggat acagtcactc tggaagtatt agtggctcca gcagttcc 48

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